

## U.S. DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

VN 8200.2B

3/12/99

## **AVIATION SYSTEM STANDARDS**

## SUBJ: GPS Flight Inspection (GFIS) Operations

- **1. PURPOSE.** This order establishes technical guidance for Global Positioning System (GPS) Flight Inspection System (GFIS) Operations.
- **2. DISTRIBUTION.** This order is distributed to the branch level in the Flight Inspection Operations and the Flight Inspection Maintenance Divisions in Aviation System Standards and to all Flight Inspection Offices.
- **3. CANCELLATIONS.** Order VN 8200.2A, GPS Flight Inspection (GFIS) Operations, dated 10/22/98, is canceled.
- **4. EXPLANATION OF CHANGES.** Deletes requirement to use GFIS during GPS flight inspections and revises responsibilities for storage and operational use.
- **5. BACKGROUND.** The GFIS is a portable system that provides analysis and testing capability during inspection of GPS non-precision approaches. The system consists of a ground-based unit that receives GPS signals and transmits known GPS position data to the airborne unit. The airborne unit uses received satellite positioning data and known ground GPS data telemetry to perform Differential GPS flight inspection functions. Operator inputs and data entry functions are accomplished by means of the associated laptop computer, which is also used for displays and logging of data for post-mission review and data retrieval. The aluminum accessory case provides storage and protection for the GPS and UHF antennas, antenna combiner, cables, and tripods. An optional hand-held GPS receiver is available for aircraft navigation if required.
- **6. RESPONSIBILITIES.** As the Office of Primary Responsibility (OPR), the Flight Inspection Maintenance Division, AVN-300, is responsible for the management of the GFIS equipment. This encompasses providing storage, inventory, and sign-out procedures for the GFIS equipment and includes quality control, minor maintenance, and coordination of any required repairs with the manufacturer. Crewmembers who request the equipment are responsible for inventorying and performing operational testing before use. The Aircraft Support Unit, AVN-331B, will assist crewmembers in shipping the GFIS equipment via commercial means when required. Crewmembers who request and sign for the equipment are also responsible for returning the unit to the Aircraft Support Unit, AVN-331B. Equipment failures, losses, or damage will be reported to AVN-331B. The shipping address for GFIS return is: DOT FAA MMAC AVN-331B, 6500 S. MACARTHUR BLVD, HANGAR 9, ROOM 323E, OKLAHOMA CITY OK 73169.

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Distribution: A-W(VN-200/300)-3; A-FFS-4(ALL) Initiated By: AVN-210